

## IN THE CLAIMS

1. (Currently Amended) A method of preparing styrene or substituted styrene comprising:
  - (a) converting a mixture comprising alkylbenzene hydroperoxide or substituted alkylbenzene hydroperoxide and an alkene to a mixture comprising a crude phenyl alkanol or substituted phenyl alkanol and an alkylene oxide in the presence of a heterogeneous catalyst; and
  - (b) dehydrating the crude phenyl alkanol or substituted phenyl alkanol or substituted phenyl alkanol in the presence of a homogeneous dehydration catalyst to obtain styrene or substituted styrene.
2. (Original) The method of claim 1, which is preceded by a non-catalyzed step wherein alkylbenzene or substituted alkylbenzene is oxidized to a mixture comprising alkylbenzene hydroperoxide or substituted alkylbenzene hydroperoxide.
3. (Currently Amended) The method of claim 1 in which the alkylbenzene hydroperoxide comprises ~~ethylene~~ ethylbenzene hydroperoxide and the phenyl alkanol comprises 1-phenylethanol.
4. (Original) The method of claim 3 in which the heterogeneous catalyst is selected from the group consisting of supported titanium compounds, zirconium compounds, molybdenum compounds, vanadium compounds, and the homogeneous catalyst is selected from the group consisting of inorganic acids and organic compounds.
5. (Original) The method of claim 1 in which the heterogeneous catalyst comprises titanium on silica, and the homogeneous catalyst comprises an aromatic and/or sulfonic acid.

6. (Original) The method of claim 5, in which the homogeneous catalyst comprises p-toluene sulfonic acid.